

Inventors: Ruoslahti et al.
Serial No.: 09/765,086
Filed: January 17, 2001
Page 2

Please add new claims 23 to 27 as follows:

23. (New) A method of selectively inducing apoptosis in normal prostate tissue in vivo, comprising administering to a subject a chimeric prostate-homing pro-apoptotic peptide, which comprises a prostate-homing peptide linked to an antimicrobial peptide,

said chimeric peptide exhibiting selective toxicity to normal prostate tissue, and

said antimicrobial peptide having low mammalian cell toxicity when not linked to said prostate-homing peptide.

24. (New) The method of claim 23, wherein said prostate-homing peptide comprises the sequence SMSIARL (SEQ ID NO: 207), or a functionally equivalent sequence.

25. (New) The method of claim 23, wherein said antimicrobial peptide comprises the sequence $_D(KLAKLAK)_2$.

26. (New) The method of claim 25, wherein said chimeric peptide comprises the sequence SMSIARL-GG- $_D(KLAKLAK)_2$.

27. (New) The method of claim 26, wherein said chimeric peptide is SMSIARL-GG- $_D(KLAKLAK)_2$.